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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/773,118

02/04/2004

Paul V. Cooper

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01/31/2008

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EXAMINER

KASTLER, SCOTT R

ART UNIT

PAPER NUMBER

1793

MAIL DATE

DELIVERY MODE

01/31/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/773,118	Applicant(s) COOPER, PAUL V.	
	Examiner Scott Kastler	Art Unit 1793	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 November 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) 1-7 and 19-25 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 8-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Election/Restrictions

Applicant's election without traverse of Claims 8-18 (Group II) in the reply filed on 11/20/2007 is acknowledged.

Claims 1-7 and 19-25 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 11/20/2007.

Claim Objections

Claim 14 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The above claim does not fairly further limit claim 13 from which it depends because in order for the throughbolts to extend through the throughbolt holes, as required by claim 13, the throughbolt holes must inherently be of a larger diameter, even if only minutely larger, than the throughbolts themselves.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 8-10, 12-14 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Cooper 5,203,681 (Cooper'681). Cooper'681 teaches a molten metal pump (10) including a pump base with gas and metal transfer conduits, and a superstructure (26) supported by a plurality of support posts (24) of equal height which are connected at their top portions to the superstructure (26) through the use of throughbolts (312) extending through throughbolt holes (310) in the support posts, thereby showing all aspects of the above claims.

Claims 8-10, 12-14 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Cooper 5,330,328 (Cooper'328). Cooper'328 teaches a molten metal pump (10) including a pump base with gas and metal transfer conduits, and a superstructure (26) supported by a plurality of support posts (24) of equal height which are connected at their top portions to the superstructure (26) through the use of throughbolts (312) extending through throughbolt holes (310) in the support posts, thereby showing all aspects of the above claims.

Claims 8-11, 16 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Cooper 6,398,525 B1 (Cooper'525). Cooper'525 teaches a molten metal pump (10) including a

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pump base with gas and metal transfer conduits, and a superstructure (20) supported by a plurality of support posts (34) of equal height which are connected at their top portions to the superstructure (20) through the use of clamps on the support posts rather than throughbolt holes (see figure 1 for example), thereby showing all aspects of the above claims.

Claims 8-11, 16 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Cooper 6,303,074 B1 (Cooper'074). Cooper'074 teaches a molten metal pump (10) including a pump base with gas and metal transfer conduits, and a superstructure (20) supported by a plurality of support posts (30) of equal height which are connected at their top portions to the superstructure (20) through the use of clamps (32) on the support posts rather than throughbolt holes (see figure 1 for example), thereby showing all aspects of the above claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over either of Cooper'328 or Cooper'681. As applied to claim 14 above, each of Cooper'328 or Cooper'681 show all aspects of the above claims except to specifically teach that the throughbolt hole has a diameter of greater than $1/32''$ more than the diameter of the throughbolt. However, since the throughbolt systems of each of Cooper'328 or Cooper'681 and that of the above claim operate in

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substantially the same manner with substantially the same results, motivation to employ any equally useful throughbolt hole diameter, as long as it is large enough to receive the throughbolt, as also required by each of Cooper'328 or Cooper'681, would have been a modification obvious to one of ordinary skill in the art at the time the invention was made. Since it has been well settled that motivation to alter the size or shape of a component (the throughbolt hole) shown by the prior art without materially altering the operation of the component or apparatus, would have been a modification obvious to one of ordinary skill in the art at the time the invention was made. See MPEP 2144.04 IV A and B.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Kastler whose telephone number is (571) 272-1243. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Scott Kastler/
Primary Examiner, Art Unit 1793

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